

# Utah Occupational Projections 2000 - 2010

by Occupational Group

|  | Employment    |               | Annual Job Openings |              |            | Hourly Wage    |                | Training Level           |
|--|---------------|---------------|---------------------|--------------|------------|----------------|----------------|--------------------------|
|  | 2000          | 2010          | Growth              | Replacements | Total      | Entry          | Average        |                          |
| <b>Architecture and Engineering Occupations</b>                            | <b>19,360</b> | <b>23,480</b> | <b>410</b>          | <b>420</b>   | <b>830</b> |                |                |                          |
| <b>Architects, Surveyors, and Cartographers</b>                            | <b>1,170</b>  | <b>1,510</b>  | <b>40</b>           | <b>20</b>    | <b>60</b>  |                |                |                          |
| <i>Architects, Except Naval</i>  | <i>510</i>    | <i>710</i>    | <i>20</i>           | <i>0</i>     | <i>20</i>  |                |                |                          |
| Architects, Except Landscape and Naval                                     | 390           | 530           | 10                  | 0            | 20         |                |                | Bachelor's degree        |
| Landscape Architects   | 120           | 180           | 10                  | 0            | 10         | \$16.40        | \$23.50        | Bachelor's degree        |
| <b>Surveyors, Cartographers, and Photogrammetrists</b>                     | <b>660</b>    | <b>800</b>    | <b>10</b>           | <b>20</b>    | <b>30</b>  |                |                |                          |
| Cartographers and Photogrammetrists  | 100           | 120           | 0                   | 0            | 10         | \$12.30        | \$20.00        | Bachelor's degree        |
| Surveyors  | 550           | 680           | 10                  | 20           | 30         | \$9.70         | \$17.80        | Bachelor's degree        |
| <b>Engineers</b>   | <b>9,930</b>  | <b>11,850</b> | <b>190</b>          | <b>200</b>   | <b>390</b> |                |                |                          |
| <i>Aerospace Engineers</i>   | <i>260</i>    | <i>330</i>    | <i>10</i>           | <i>10</i>    | <i>10</i>  | <i>\$22.30</i> | <i>\$31.00</i> | <i>Bachelor's degree</i> |
| <i>Biomedical Engineers</i>  | <i>80</i>     | <i>120</i>    | <i>0</i>            | <i>0</i>     | <i>10</i>  |                |                | <i>Bachelor's degree</i> |
| <i>Chemical Engineers</i>  | <i>170</i>    | <i>200</i>    | <i>0</i>            | <i>0</i>     | <i>10</i>  | <i>\$23.80</i> | <i>\$31.60</i> | <i>Bachelor's degree</i> |
| <i>Civil Engineers</i>   | <i>1,200</i>  | <i>1,470</i>  | <i>30</i>           | <i>20</i>    | <i>50</i>  | <i>\$18.80</i> | <i>\$26.80</i> | <i>Bachelor's degree</i> |
| <i>Computer Hardware Engineers</i>   | <i>800</i>    | <i>1,010</i>  | <i>20</i>           | <i>10</i>    | <i>30</i>  | <i>\$18.70</i> | <i>\$28.70</i> | <i>Bachelor's degree</i> |
| <i>Electrical and Electronics Engineers</i>                                | <i>1,600</i>  | <i>1,740</i>  | <i>10</i>           | <i>30</i>    | <i>40</i>  |                |                |                          |
| Electrical Engineers   | 680           | 790           | 10                  | 10           | 20         | \$22.20        | \$31.50        | Bachelor's degree        |
| Electronics Engineers, Except Computer                                     | 920           | 950           | 0                   | 20           | 20         | \$24.20        | \$30.20        | Bachelor's degree        |
| <i>Environmental Engineers</i>   | <i>290</i>    | <i>410</i>    | <i>10</i>           | <i>10</i>    | <i>20</i>  | <i>\$20.60</i> | <i>\$27.60</i> | <i>Bachelor's degree</i> |
| <i>Industrial Engineers, Including Health and Safety</i>                   | <i>1,750</i>  | <i>2,270</i>  | <i>50</i>           | <i>30</i>    | <i>80</i>  |                |                |                          |
| Health and Safety Engineers, Except Mining Safety Engineers and Inspectors | 700           | 1,080         | 40                  | 10           | 50         |                |                | Bachelor's degree        |
| Industrial Engineers   | 1,050         | 1,190         | 20                  | 20           | 30         | \$19.10        | \$27.30        | Bachelor's degree        |
| <i>Materials Engineers</i>   | <i>210</i>    | <i>230</i>    | <i>0</i>            | <i>10</i>    | <i>10</i>  | <i>\$19.60</i> | <i>\$29.10</i> | <i>Bachelor's degree</i> |
| <i>Mechanical Engineers</i>  | <i>1,660</i>  | <i>1,990</i>  | <i>30</i>           | <i>50</i>    | <i>80</i>  | <i>\$21.70</i> | <i>\$29.10</i> | <i>Bachelor's degree</i> |
| <i>Mining and Geological Engineers, Including Mining</i>                   | <i>110</i>    | <i>120</i>    | <i>0</i>            | <i>0</i>     | <i>0</i>   | <i>\$22.10</i> | <i>\$35.70</i> | <i>Bachelor's degree</i> |
| <i>Petroleum Engineers</i>   | <i>70</i>     | <i>70</i>     | <i>0</i>            | <i>0</i>     | <i>0</i>   |                |                | <i>Bachelor's degree</i> |
| <i>Miscellaneous Engineers</i>   | <i>1,710</i>  | <i>1,860</i>  | <i>20</i>           | <i>40</i>    | <i>50</i>  | <i>\$24.90</i> | <i>\$32.40</i> | <i>Bachelor's degree</i> |

\*Annual Wage

Note: Detail may not add to totals because of the exclusion of small occupations and rounding.

Source: Utah Department of Workforce Services, May 2003

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|  | 2000                | 2010                | Growth              | Replacements      | Total             | Entry                 | Average               |                                |
| <b>Drafters, Engineering, and Mapping Technicians</b>                    | <b>8,260</b>        | <b>10,120</b>       | <b>190</b>          | <b>200</b>        | <b>380</b>        |                       |                       |                                |
| <i><b>Drafters</b></i>   | <i><b>1,650</b></i> | <i><b>2,070</b></i> | <i><b>40</b></i>    | <i><b>50</b></i>  | <i><b>90</b></i>  |                       |                       |                                |
| Architectural and Civil Drafters   | 610                 | 790                 | 20                  | 20                | 40                | \$11.00               | \$16.10               | Vocational                     |
| Electrical and Electronics Drafters                                      | 390                 | 480                 | 10                  | 10                | 20                | \$11.20               | \$18.30               | Vocational                     |
| Mechanical Drafters  | 650                 | 800                 | 20                  | 20                | 40                | \$13.40               | \$19.20               | Vocational                     |
| <i><b>Engineering Technicians, Except Drafters</b></i>                   | <i><b>5,140</b></i> | <i><b>6,030</b></i> | <i><b>90</b></i>    | <i><b>110</b></i> | <i><b>190</b></i> |                       |                       |                                |
| Aerospace Engineering and Operations Technicians                         | 80                  | 90                  | 0                   | 0                 | 0                 | \$11.50               | \$18.60               | Associate degree               |
| Civil Engineering Technicians  | 580                 | 680                 | 10                  | 10                | 20                | \$12.90               | \$18.00               | Associate degree               |
| Electrical and Electronic Engineering Technicians                        | 2,300               | 2,690               | 40                  | 50                | 90                | \$8.80                | \$17.50               | Associate degree               |
| Electro-Mechanical Technicians   | 380                 | 430                 | 10                  | 10                | 10                | \$15.20               | \$19.10               | Associate degree               |
| Environmental Engineering Technicians                                    | 120                 | 180                 | 10                  | 0                 | 10                | \$12.10               | \$17.50               | Associate degree               |
| Industrial Engineering Technicians                                       | 710                 | 800                 | 10                  | 20                | 20                | \$12.40               | \$19.00               | Associate degree               |
| Mechanical Engineering Technicians                                       | 760                 | 930                 | 20                  | 20                | 30                | \$15.50               | \$20.00               | Associate degree               |
| Engineering Technicians, Except Drafters, All Other                      | 220                 | 220                 | 0                   | 10                | 10                |                       |                       | Associate degree               |
| <i><b>Surveying and Mapping Technicians</b></i>                          | <i><b>670</b></i>   | <i><b>920</b></i>   | <i><b>30</b></i>    | <i><b>20</b></i>  | <i><b>50</b></i>  | <i><b>\$10.70</b></i> | <i><b>\$13.90</b></i> | <i><b>Moderate OJT</b></i>     |
| <i><b>Drafter, Engineering, &amp; Mapping Technicians, All Other</b></i> | <i><b>810</b></i>   | <i><b>1,090</b></i> | <i><b>30</b></i>    | <i><b>20</b></i>  | <i><b>50</b></i>  | <i><b>\$11.30</b></i> | <i><b>\$18.60</b></i> | <i><b>Associate degree</b></i> |

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